

# CV Prof. Dr. Maren von Köckritz-Blickwede

- **Professor for Biochemistry of Infection, Institute for Biochemistry, University of Veterinary Medicine Hannover**
- **Director for Scientific Administration and Biosafety Management, Research Center for Emerging Infections and Zoonosis (RIZ)**

**Personal Information** Born: 1976, Nationality: German; 2 kids

## **Scientific discipline and key expertise**

- Infection biochemistry
- Innate immunity
- Host-pathogen interaction
- Hypoxia/tissue oxygen supply
- Animal experimental infection models & alternatives to animal experiments

## **Education, research, and professional experience**

- Since 2019 Director for Scientific Administration and Biosafety Management, Research Center for Emerging Infections and Zoonosis (RIZ), University of Veterinary Medicine
- 2017 Biosafety expert for BSL3
- Since 2015 Professor for Biochemistry of Infection, Department of Biochemistry, University of Veterinary Medicine Hannover
- 2014 Lecture qualification (Habilitation) in Biochemistry and Infection Biology, University of Veterinary Medicine, Hannover, Germany
- 2010 - 2015 Head of the Infection Biochemistry Group, Department of Biochemistry, University of Veterinary Medicine Hannover
- Since 2003 Biosafety expert genetically modified organisms
- 2008 - 2010 Post-doctoral fellow at the Department of Pharmacology & Drug Discovery, San Diego School of Medicine, University of California, supported by Deutsche Akademie der Naturforscher Leopoldina.
- 2004 - 2008 PostDoc at the Department of Microbial Pathogenicity, Helmholtz Center for Infection Research (HZI), Braunschweig, Germany.
- 2004 Dr. rer. nat., University of Veterinary Medicine, Hannover, Germany
- 2001 Advanced training course in animal welfare and skills for personnel that plan and conduct animal experiments ("Tierschutzgerechter Umgang mit Versuchstieren" formerly FELASA C course) according to Anl. 1 Abs. 3 TierSchVersV and attachment V, Art. 23 and 24 of Directive 2010/63/EU
- 1995 - 2001 Studies of Biology, University of Hannover, Germany

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1998 - 1999 Integrated studies of Tropical Biology at the Universidad Nacional de Heredia, Costa Rica, funded by a scholarship from the German Academic Exchange Service

## Selected awards and honors

- 2012 *Gustav-Rosenberger Gedächtnispreis zur Förderung des wissenschaftlichen Nachwuchses*, University of Veterinary Medicine Hannover
- 2008 Leopoldina fellowship for 2 years PostDoc in USA
- 2008 Awardee of the Helmholtz-Network-Mentoring Program

## Selected extraordinary functions

- Since 2020 Member of the DFG Review Board (207-08 Veterinary Medicine)
- Since 2017 Chairperson of the Preclinical Commission (Vorsitz "Fachkommission Vorklinik"), University of Veterinary Medicine, Hannover, Germany.
- Since 2015 Biosafety officer (S1-S3), Research Center for Emerging Infections and Zoonosis, University of Veterinary Medicine, Hannover, Germany.

## Selected publications

1. Becker K\*, Beythien G\*, de Buhr N\*, Stanella-Bertram S, Tuku B, Mounogou Kouassi N, Beck S, Zickler M, Allnoch L, Gabriel G, **von Köckritz-Blickwede M\***, Baumgärtner W\*. Vasculitis and Neutrophil Extracellular Traps in Lungs of Golden Syrian Hamsters with SARS-CoV-2. *Front. Immunol.* 2021 Apr 12; 12(1); 1125; doi: 10.3389/fimmu.2021.640842. [\* contributed equally to the manuscript]
2. Schulz C, Gabriel G, **von Köckritz-Blickwede M**. Detrimental Role of Neutrophil Extracellular Traps during Dengue Virus Infection. *Trends Immunol.* 2020 Jan;41(1):3-6. doi: 10.1016/j.it.2019.11.010.
3. de Buhr N, Bonilla MC, Pfeiffer J, Akhdar S, Schwennen C, Kahl BC, Waldmann KH, Valentin-Weigand P, Hennig-Pauka I, **von Köckritz-Blickwede M**. Degraded neutrophil extracellular traps promote the growth of *Actinobacillus pleuropneumoniae*. *Cell Death Dis.* 2019 Sep 10;10(9):657. doi: 10.1038/s41419-019-1895-4.
4. Ulas T, Pirr S, Fehlhaber B, Bickes MS, Loof TG, Vogl T, Mellinger L, Heinemann AS, Burgmann J, Schöning J, Schreek S, Pfeifer S, Reuner F, Völlger L, Stanulla M, **von Köckritz-Blickwede M**, Glander S, Barczyk-Kahlert K, von Kaisenberg CS, Friesenhagen J, Fischer-Riepe L, Zenker S, Schultze JL, Roth J, Viemann D. S100-alarmin-induced innate immune programming protects newborn infants from sepsis. *Nat Immunol.* 2017 Jun;18(6):622-632. doi: 10.1038/ni.3745.
5. Chow OA\*, **von Köckritz-Blickwede M\***, Bright AT, Hensler ME, Zinkernagel AS, Cogen AL, Gallo RL, Monestier M, Wang Y, Glass CK, Nizet V. Statins enhance formation of phagocyte extracellular traps. *Cell Host Microbe.* 2010 Nov 18;8(5):445-54. doi: 10.1016/j.chom.2010.10.005. [\* contributed equally to the manuscript]